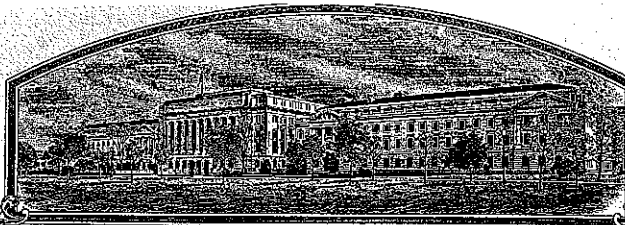


No.

200200138



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Syngenta Seeds, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'S18-N5'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this nineteenth day of July, in the year two thousand two.

Attest:

Paul M. Jakub

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

W. L. Gorman


Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Syngenta Seeds, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME J604217, X118	3. VARIETY NAME S18-N5
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) P.O. Box 959 Minneapolis, MN 55440		5. TELEPHONE (include area code) 763-593-7333	FOR OFFICIAL USE ONLY PVPO NUMBER <div style="font-size: 2em; font-weight: bold;">20020013</div> <div style="font-size: 2em; font-weight: bold;">821002002</div> FILING DATE <div style="font-size: 1.5em;">4/19/2002</div>
		6. FAX (include area code) 763-593-7801	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation	8. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware	9. DATE OF INCORPORATION 1976	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) John C. Thorne Syngenta Seeds, Inc. P.O. Box 949 Washington, Iowa 52353			FILING AND EXAMINATION FEES: <div style="font-size: 1.5em;">\$ 2705.⁰⁰</div> DATE 4/19/2002 CERTIFICATION FEE: <div style="font-size: 1.5em;">\$ 320.⁰⁰</div> DATE 6/3/02
11. TELEPHONE (include area code) 319-653-2181	12. FAX (include area code) 319-653-4609	13. E-MAIL johnc.thorne@syngenta.com	14. CROP KIND (Common Name) Soybeans
15. GENUS AND SPECIES NAME OF CROP Glycine Max		16. FAMILY NAME (Botanical) Leguminosae	17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 23)	
		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? IF YES, SPECIFY THE <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED NUMBER 1,2,3, etc. (If additional explanation is necessary, please use the space indicated on the reverse.)	
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? BTs CORRECTED PER APPLICANT'S PERMISSION (NEW COPY FAXED) ON 4/25/2002 <input checked="" type="checkbox"/> YES ANSWER TO THIS IS "YES" <input type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			
SIGNATURE OF OWNER 		SIGNATURE OF OWNER	
NAME (Please print or type) John C. Thorne		NAME (Please print or type)	
CAPACITY OR TITLE Director, Self Pollinated Crops	DATE 26 March 2002	CAPACITY OR TITLE	DATE

INSTRUCTIONS

200200138

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.5 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant companions which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

U.S. Patent Application 09/874,639, June 5, 2001.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Compliance Officer, OIGM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When responding, refer to OMB No. 0581-0055 and form number in your letter.

Under the PRA of 1992, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Also see prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (202) 720-2791. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-1327 (voice) or (202) 720-1327 (TDD). USDA is an equal opportunity provider.

EXHIBIT A

Origin and Breeding History of S18-N5

In the summer of 1993 the Syngenta (formerly Novartis Seeds, Inc. or Northrup King Co.) breeding group at Washington, IA, made the cross 'A3431' x 'S18-11' from which the variety S18-N5 was derived. Cultivar A3431 is a commercial variety marketed by Asgrow Seed Company. S18-11 is a cultivar marketed by Syngenta Seeds.

The F1 and F2 generations were grown at the Syngenta Seeds, Inc., Research Center near Kekaha, Kauai, HI, in the winter of 1993-94. The F3 generation was grown at Washington in the summer of 1994; the F4 and F5 in Kekaha in the winter of 1994-95, and the F6 at the Syngenta Seeds Research Center at St. Joseph, IL, in the summer of 1995. The F2 through F5 generations were advanced using a modified system of single seed descent. Single F6 plants were harvested in the fall of 1995 and threshed individually. The progeny from these plants were grown in progeny rows at St. Joseph in the summer of 1996. One of these, designated J604217, was chosen for testing in preliminary yield trials in 1997. It was selected based on yield and resistance to soybean cyst nematode (*Heterodera glycines*) for further testing. J604217 was tested in extensive replicated trials in the central United States from 1998 through 2001 and found to perform well compared to other late Maturity Group 1 varieties. It was tested in the greenhouse at the Syngenta Seeds, Inc. Research Center at Bay, AR, for resistance to *Phytophthora sojae* and found to have no major genes for resistance. It was also tested in the greenhouse at Bay for resistance to Races 3 and 14 of Soybean Cyst Nematode and found to be resistant to Race 3 and moderately resistant to Race 14. J604217 was also found to have purple flowers, gray pubescence, tan pod walls, and seed with yellow seed coats and imperfect black hila (may contain up to 2% other hilum color). Like all imperfect black varieties, hilum color may vary in response to environmental conditions, and sometimes differentiation from buff hilum color is difficult. In 2001 it was tested under the experimental designation X118, and based on its yield performance and pest resistance, it was released as S18-N5.

During the winter of 1998-99, 300 seeds of S18-N5 were rogued for hilum color and planted in Kekaha. This increase was rogued for flower, pubescence, and pod color, and individual plants were harvested. The seed from each plant was planted as progeny rows at Washington in the summer of 1999. The increase was rogued carefully at flowering and maturity, and any off-type rows or plants removed. Remaining rows were harvested, checked for hilum color, and rows with imperfect black hilum bulked to produce PreBreeder Seed. This increase was then planted to produce Breeder Seed in the summer of 2000. This increase was used to produce Foundation seed of S18-N5 in the summer of 2001. The increase was monitored carefully and found to meet Syngenta Seeds, Inc. standards for Foundation Seed.

S18-N5 is uniform and stable within a purity level of 99% (98% for hilum color). During the four years of testing and three years of seed increase, we have observed no variants. Any off-type plants removed from increase fields were assumed to have arisen from admixture or out-crossing. Varietal purity will be maintained using progeny rows as needed for the life of the variety.

EXHIBIT B**Statement of Distinctness for the Variety S18-N5**

Soybean variety S18-N5 is most like the parent variety, S18-11, and Pioneer brand variety, 9234. It can be differentiated from S18-11 and 9234 on the basis of pubescence and hilum color. S18-N5 has gray pubescence and seeds with imperfect black hila; S18-11 has tawny pubescence and seeds with black hila; 9234 has tawny pubescence and seeds with brown hila.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT C
(Soybean)

OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN (*Glycine max* (L.) Merr.)

NAME OF APPLICANT(S) Syngenta Seeds, Inc.	FOR OFFICIAL USE ONLY 200200138
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 510 N. 12th Ave P.O. Box 949 Washington, Iowa 52353	VARIETY NAME S18-N5
	TEMPORARY OR EXPERIMENTAL DESIGNATION J604217

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in the first box (e.g.

9	9	9
---	---	---

 or

0	9
---	---

) when number is either 99 or less or 9 or less respectively. Data for quantitative

plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used:

Please answer all questions for your variety; lack of response may delay progress of your application.

A. MORPHOLOGY

Seed Shape:

- | | | |
|--|--|---|
| <table border="1" style="display: inline-table;"><tr><td>2</td></tr></table> 1 = Spherical
(L/W, L/T, and T/W ratios < 1.2) | 2 | 2 = Spherical-Flattened
(L/W ratio > 1.2; L/T ratio < 1.2) |
| 2 | | |
| 3 = Elongate
(L/T ratio > 1.2; T/W ratio < 1.2) | 4 = Elongate-Flattened
(L/T ratio > 1.2; T/W ratio > 1.2) | |

Seed Coat Color:

- | | | | | | |
|---|---|-----------|-----------|-----------|-------------------------------------|
| <table border="1" style="display: inline-table;"><tr><td>1</td></tr></table> 1 = Yellow | 1 | 2 = Green | 3 = Brown | 4 = Black | 5 = Other
(Please Specify) _____ |
| 1 | | | | | |

Seed Coat Luster:

- | | | | |
|--|--|-----------|--------------|
| <table border="1" style="display: inline-table;"><tr><td></td></tr></table> 1 = Dull | | 2 = Shiny | Intermediate |
| | | | |

Seed Size:

- | | | |
|--|---|---|
| <table border="1" style="display: inline-table;"><tr><td>1</td><td>9</td></tr></table> grams/100 seeds | 1 | 9 |
| 1 | 9 | |

Hilum Color:

- | | | | | | |
|---|----------------------------------|------------|-----------|----------|---------------------|
| <table border="1" style="display: inline-table;"><tr><td>5</td></tr></table> 1 = Buff | 5 | 2 = Yellow | 3 = Brown | 4 = Gray | 5 = Imperfect Black |
| 5 | | | | | |
| 6 = Black | 7 = Other (Please Specify) _____ | | | | |

A. MORPHOLOGY (Continued)

Cotyledon Color:

☐ 1 = Yellow 2 = Green

Seed Protein Peroxidase Activity:

☐ 2 1 = Low 2 = High

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Hypocotyl Color:

☐ 3 1 = Green 2 = Green with Bronze 3 = Light Purple 4 = Dark Purple extending to
('Evans' or 'Davis') Bands below Cotyledons below Cotyledons unifoliate leaves ('Hodgson',
('Woodworth' or 'Tracy') ('Beeson' or 'Pickett 71') 'Coker', or 'Hampton 266A')

Leaflet Shape:

☐ 3 1 = Lanceolate 2 = Oval 3 = Ovate 4 = Other (Please Specify) _____

Flower Color:

☐ 2 1 = White 2 = Purple 3 = White with a Purple Throat

Pod Color:

☐ 1 1 = Tan 2 = Brown 3 = Black

Pubescence Color:

☐ 1 1 = Gray 2 = Brown (Tawny) 3 = Light Tawny

Plant Habit:

☐ 3 1 = Determinate 2 = Semi - Determinate 3 = Indeterminate 4 = Intermediate

Maturity Group:

<input type="checkbox"/> 4	1 = 000	2 = 00	3 = 0	4 = I	5 = II
	6 = III	7 = IV	8 = V	9 = VI	10 = VII
	11 = VIII	12 = IX	13 = X	14 = XI	15 = XII

Maturity Subgroup:

☐ 8 Please enter a value from 0 - 9

B. DISEASE REACTIONS

0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

Bacterial

☐ 0 Bacterial Pustule (*Xanthomonas campestris* pv. *glycines* (Nakano) Dye)

☐ 0 Bacterial Blight (*Pseudomonas syringae* pv. *glycinea* (Coerper) Young, Dye, & Wilkie)

☐ 0 Wildfire Blight (*Pseudomonas syringae* pv. *tabaci* (Wolf & Foster) Young, Dye, & Wilkie)

B. DISEASE REACTIONS (Continued)

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Fungal

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☐ 1 Brown Spot (*Septoria glycines* Hemmi)Frogeye Leaf Spot (*Cercospora sojae* Hara)☐ 0 race 1☐ 0 race 2☐ 0 race 3☐ 0 race 4☐ 0 race 5☐ 0 race 6☐ Other (Please Specify) _____☐ 0 Target Spot (*Corynespora cassiicola* (Berk. & Curt.) Wei)☐ 0 Downey Mildew (*Peronospora trifoliorum* var. *manchurica* (Naum.) Syd. ex Gäum)☐ 0 Powdery Mildew (*Microsphaera diffusa* Cke. & Pk.)☐ 3 Brown Stem Rot (*Phialophora gregata* (Allington & Chamberlain) W. Gams.)☐ 0 Stem Canker (*Diaporthe phaseolorum* (Cke. & Ell.) Sacc. var. *caulivora* Athow & Caldwell)☐ 1 Pod and Stem Blight (*Diaporthe phaseolorum* (Cke. & Ell.) Sacc. var. *sojae* (Lehman) Wehm.)☐ 1 Purple Seed Stain (*Cercospora kikuchii* (T. Matsu. & Tomoyasu) Gardener)☐ 1 Rhizoctonia Root Rot (*Rhizoctonia solani* Kühn)Phytophthora Root Rot (*Phytophthora megasperma* Drechs. f. sp. *glycinea* (Kuan & Erwin))☐ 1 race 1☐ race 8☐ race 15☐ race 22☐ race 2☐ race 9☐ race 16☐ race 23☐ 1 race 3☐ race 10☐ race 17☐ race 24☐ 1 race 4☐ race 11☐ race 18☐ race 25☐ race 5☐ race 12☐ race 19☐ race 26☐ race 6☐ race 13☐ race 20☐ Other (Please Specify) _____☐ 1 race 7☐ race 14☐ race 21☐ 0 Bud Blight (Tobacco Ringspot Virus)☐ 0 Yellow Mosaic (Bean Yellow Mosaic Virus)

B. DISEASE REACTIONS (Continued) 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant

☐ 0 Cowpea Mosaic (Cowpea Chlorotic Virus)

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☐ 0 Pod Mottle (Bean Pod Mottle Virus)☐ 0 Seed Mottle (Soybean Mosaic Virus)

Nematode

Soybean Cyst Nematode (*Heterodera glycines* Ichinohe)☐ race 1☐ race 4☐ race 9☐ race 2☐ race 5☒ 2 race 14☒ 2 race 3☐ race 6☐ Other (Please Specify) _____☐ 0 Lance Nematode (*Hoplolaimus columbus* Sher)☐ 0 Southern Root Knot Nematode (*Meloidogyne incognita* (Kofoid & White) Chitwood)☐ 0 Northern Root Knot Nematode (*Meloidogyne hapla* Chitwood)☐ 0 Peanut Root Knot Nematode (*Meloidogyne arenaria* (Neal) Chitwood)☐ 0 Reniform Nematode (*Rotylenchus reniformus* Linwood & Olivera)☐ 0 Javanese Nematode (*Meloidogyne javanica* (Treub) Chitwood)☐ 0 Other Nematode (Please Specify) _____

C. PHYSIOLOGICAL RESPONSES

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

☐ Iron Chlorosis on Calcareous Soil

Intermediate

☐ 0 Phosphorus☐ Other (Please Specify) _____☐ 0 Boron☐ 0 Aluminum☐ 0 Salt☐ 0 Drought

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D. INSECT REACTIONS

0 = Not Tested

1 = Susceptible

2 = Resistant 3 = Tolerant

☐ 0 Mexican Bean Beetle (*Epilachna varivestis* Mulsant)☐ 0 Potato Leaf Hopper (*Empoasca fabae* (Harris))☐ Other (Please Specify) _____**E. HERBICIDE REACTIONS**

0 = Not Tested

1 = Susceptible

2 = Resistant

☐ 2 Metribuzin☐ 0 Bentazone☐ 1 Sulfonylurea☐ 1 Glyphosate☐ 1 Glufosinate☐ 0 Pendimethalin☐ 1 Other (Please Specify) Sulfentrazone**F. TRANSGENIC COMPOSITION**

Has the development of the subject variety included the insertion of genetic material from an organism other than a soybean, or, the removal of genetic material from the application variety?

If yes, please complete the following information requests*. Use additional pages if necessary.

☐ YES ☒ NO

1. Please state the vector's name:

2. Please state the vector components:

3. Please describe the genetic material successfully transferred into the subject variety:

4. Please describe the insertion protocol:

* A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS

Please describe any biochemical information here, which you believe will be helpful in further describing the subject variety (e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

H. COMMENTS

200200138

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) Syngenta Seeds, Inc.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER J604217	3. VARIETY NAME S18-N85 CORRECTED PER APPLICANT'S PERMISSION (ON 4/24/2002 BY)
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 510 N. 12th Ave. P.O. Box 949 Washington, Iowa 52353	5. TELEPHONE (include area code) 319-653-2181	6. FAX (include area code) 319-653-4609
7. PVPO NUMBER 200200138		

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain.

☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?

If no, give name of country _____

☒ YES ☐ NO

10. Is the applicant the original breeder? If no, please answer the following:

☒ YES ☐ NO

a. If original rights to variety were owned by individual(s):

Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country _____

☐ YES ☐ NO

b. If original rights to variety were owned by a company:

Is the original breeder(s) U.S. based company? If no, give name of country _____

11. Additional explanation on ownership (If needed, use reverse for extra space):

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter.

Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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